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c. FRACTIONATION AND DISTILLATION PRODUCTS OF MINERAL OILS, OIL SHALES, LIGNITE, AND COAL TAR (Processed Oils and Paraffins)

I. CHEMICAL AND TECHNOLOGICAL ASPECTS

Semi-refined and refined oils and paraffins are products of the fractionation and distillation of petroleum, oil shales, lignite, coal tar, and of the cracking of coal. Their chemical composition depends upon and varies with the original substances they are prepared from, and with the methods by which they are obtained (refining processes).

Petroleum Oils. Crude mineral oil is separated into several fractions by distillation at various temperatures. The volatile gasoline is driven out of the crude mineral oil at a temperature ranging from 90°C to 200°C. The next fraction, kerosene, is obtained when the contents of the still are heated to approximately 250°C. The residue is subjected to a temperature up to 300°C. gas oil is distilled off. What is left at the bottom of the still, represent-